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Attorney Docket No. 21922.0007

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

William G. BARKER et al.

Serial No.: 09/910,551

Filed: 23 July 2001

For: APPARATUS AND METHOD FOR THE DESIGN AND MANUFACTURE OF  
THIN-FILM ELECTROCHEMICAL DEVICES

# 2/A

## SUPPLEMENTAL PRELIMINARY AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination of the above-identified application, please amend the application as follows:

## IN THE CLAIMS:

Please amend the claims as follows:

B1  
3. (amended) The method of claim 1 wherein said electrolyte layer comprises a material selected from a group consisting of yttria stabilized zirconia, a mixed ion and electron conductor, and a composite of a metal and an ion conductor.

B2  
6. (amended) The method of claim 1 wherein said interconnect layer comprises a material selected from a group consisting of metal, alloy, and ceramic.

B3  
9. (amended) The method of claim 8 wherein said thin-film deposition technique comprises a technique selected from a group consisting of aqueous spray deposition, tape casting, co-casting onto said anode layer, thermal spray, plasma spray, and directed vapor deposition.

B4  
13. (amended) The method of claim 12 wherein said thin-film deposition technique comprises a technique selected from a group consisting of thermal spray, directed vapor deposition, plasma spray, tape-casting, and co-casting onto a porous catalyst layer.

B5  
17. (amended) The method of claim 16 wherein said ceramic-to-metal joining